**Common Polyatomic Ions**

**Ordered according to charge and ion family**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| +1 CHARGE | | -1 CHARGE | | -2 CHARGE | | -3 CHARGE | |
| **ion** | **name** | **ion** | **name** | **ion** | **name** | **ion** | **name** |
| NH4+ | ammonium |  |  | HPO32- | hydrogen phosphite | PO33- | phosphite |
| H3O+ | hydronium |  |  | HPO42- | hydrogen phosphate | PO43- | phosphate |
|  | | HCO3- | hydrogen carbonate | CO32- | carbonate | AsO33- | arsenite |
| HSO3- | hydrogen sulfite(bisulfide) | SO32- | sulfite | AsO43- | arsenate |
| HSO4- | hydrogen sulfate(bisulfate) | SO42- | sulfate | BO33- | borate |
| NO2- | nitrite | S2O32- | thiosulfate |  |  |
| NO3- | nitrate | SiO32- | silicate |  |  |
| OH- | hydroxide | CrO42- | chromate |  |  |
| CH3COO- | acetate | Cr2O72- | dichromate |  |  |
| CN- | cyanide | O22- | peroxide |  |  |
| MnO4- | permanganate |  |  |  |  |
| ClO- | hypochlorite |  |  |  |  |
| ClO2- | chlorite |  |  |  |  |
| ClO3- | chlorate |  |  |  |  |
| ClO4- | perchlorate |  |  |  |  |
| BrO- | hypobromite |  |  |  |  |
| BrO2- | bromite |  |  |  |  |
| BrO3- | bromate |  |  |  |  |
| BrO4- | perbromate |  |  |  |  |
| IO- | hypoiodite |  |  |  |  |
| IO2- | iodite |  |  |  |  |
| IO3- | iodate |  |  |  |  |
| IO4- | periodate |  |  |  |  |

Chromium(II) Cr2+ Chromous   
Chromium(III) Cr3+ Chromic   
Chromium(VI) Cr6+ Chromyl   
Cobalt(II) Co2+ Cobaltous   
Cobalt(III) Co3+ Cobaltic   
Copper(I) Cu+ Cuprous   
Copper(II) Cu2+ Cupric   
Iron(II) Fe2+ Ferrous   
Iron(III) Fe3+ Ferric   
Lead(II) Pb2+ Plumbous   
Lead(IV) Pb4+ Plumbic   
Manganese(II) Mn2+ Manganous   
Manganese(III) Mn3+ Manganic   
Manganese(IV) Mn4+ Manganyl   
Manganese(VII) Mn7+   
Mercury(I) Hg2(2+) Mercurous   
Mercury(II) Hg2+ Mercuric   
Nickel(II) Ni2+ Nickelous   
Nickel(III) Ni3+ Nickelic   
Tin(II) Sn2+ Stannous   
Tin(IV) Sn4+ Stannic   
Carbon C (can work with 1+, 2+, 3+, 4+)  
Nitrogen (can work with 3+, 5+, 3-)  
Phosphorus (can work 5+, 3+,3- )  
Sulphur (can work 4+, 6+,2−)